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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/019,299	03/11/2002		Johshi Gotoh	P67440US0	8811	
136	7590	03/11/2003				
JACOBSON HOLMAN PLLC 400 SEVENTH STREET N.W. SUITE 600 WASHINGTON, DC 20004				EXAM	EXAMINER	
			•	ALCALA	ALCALA, JOSE H	
				ART UNIT	PAPER NUMBER	
				2827		
				DATE MAILED: 03/11/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
		10/019,299	GOTOH ET AL.	
Office	tion Summary	Examiner	Art Unit	
)	Jose H Alcala	2827	
The MAILIN	DATE of this communication app G	ears on the cover sheet	with the correspondence ac	Idress
Period for Reply	TUTORY PERIOD FOR REPLY	Y IS SET TO EXPIRE <u>1</u>	MONTH(S) FROM	
THE MAILING DAT	TA)F THIS COMMUNICATION. E (allable under the provisions of 37 CFR 1.1: Be alle mailing date of this communication. om the dabove is less than thirty (30) days, a reply cified above, the maximum statutory period or extended period for reply will by statute.	36(a). In no event, however, may within the statutory minimum of t will apply and will expire SIX (6) M	a reply be timely filed thirty (30) days will be considered time ONTHS from the mailing date of this o	ly. communication.
Failure to reply within the Any reply received by the earned patent term adjust	set c3 later than three months after the mailing	,		
Status	emmunication(s) filed on			
1) Responsive	to c∉ NAI 2h\⊠ Th	is action is non-final.		
2a) ☐ This action is	FII	ance except for formal m	natters, prosecution as to th	ne merits is
	Pligance with the proctice under	Ex parte Quayle, 1935 (C.D. 11, 453 O.G. 213.	
Disposition of Claims	is/arte pending in the application	l.		
4) (X) Claim(s) <u>1-11</u>	ve clai.m(s) is/are withdra	wn from consideration.		
5) Claim(s)	ve ciai.			
6) Claim(s)	_ is/are risjected.			
7) Claim(s)	_ is/are objected to.			
	are subject to restriction and/or o	election requirement.		
Application Papers		•		
•	on is objected to by the Examine			
10) The drawing (s) filed on is/are: a)□ accep	pted or b) objected to by	y the Examiner.	
	y not request that any objection to the			
11)☐ The proposed	drawing correction filed on	_ is: a)□ approved b)□	disapproved by the Examir	ier.
If approved, o	corrected drawings are required in re	ply to this Office action.		
12) The oath or de	claration is objected to by the Ex	aminer.		
Priority under 35 U.S.		1		
13) Acknowledgn	nent is made of a claim for foreigr	n priority under 35 U.S.C). § 119(a)-(d) or (f).	
•	Some * c)☐ None of:	<i>:</i>		
	d copies of the priority document			
	d copies of the priority document			
apr	of the certified copies of the prio plication from the International Bu ed detailed Office action for a list	ıreau (PCT Rule 17.2(a))).	Stage
	ent is made of a claim for domest			al application).
•	slation of the foreign language pro			·
	ent is made of a claim for domes			
Attachment(s)				į
	Cited (PTO-892) n's Patent Drawing Review (PTO-948) e Statement(s) (PTO-1449) Paper No(s) _	5) Notice	ew Summary (PTO-413) Paper No of Informal Patent Application (P	

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Art Unit: 2827

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-2, drawn to a printed circuit board, classified in class 174, subclass 260.
 - Claims 3,4,11, drawn to a method of making a printed circuit board, classified in class 29, subclass 825.
 - III. Claims 5-10, drawn to an under filling material, classified in class 524, subclass 198.
- 2. The inventions are distinct, each from the other because of the following reasons: Inventions I and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the printed circuit board can be made from a polyoxyalkylene polyol in a weight ratio different than the specific 9:1 to 2:8 range. The subcombination has separate utility such as stock material for the manufacturing of rigid foam insulation and packaging materials.

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Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process, such as by manufacturing a substrate comprising an underfilling material disposed over a circuit board, and proceeding to heat the solder balls and the underfilling material at the same time, in order to attach the semiconductor package to the substrate.

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Given the complexity of the requirement, a telephone election was not sought by examiner.
- 5. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jose H Alcala whose telephone number is (703) 305-9844. The examiner can normally be reached on Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Talbott can be reached on (703) 305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3431 for regular communications and (703) 305-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

KAMAND CUNEO

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800

JHA March 5, 2003